



Erisma[®] - **LP EVO**

ILIAC FIXATION



Surgical Technique - ENG



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Erisma[®]-LP EVO

ILIAC FIXATION



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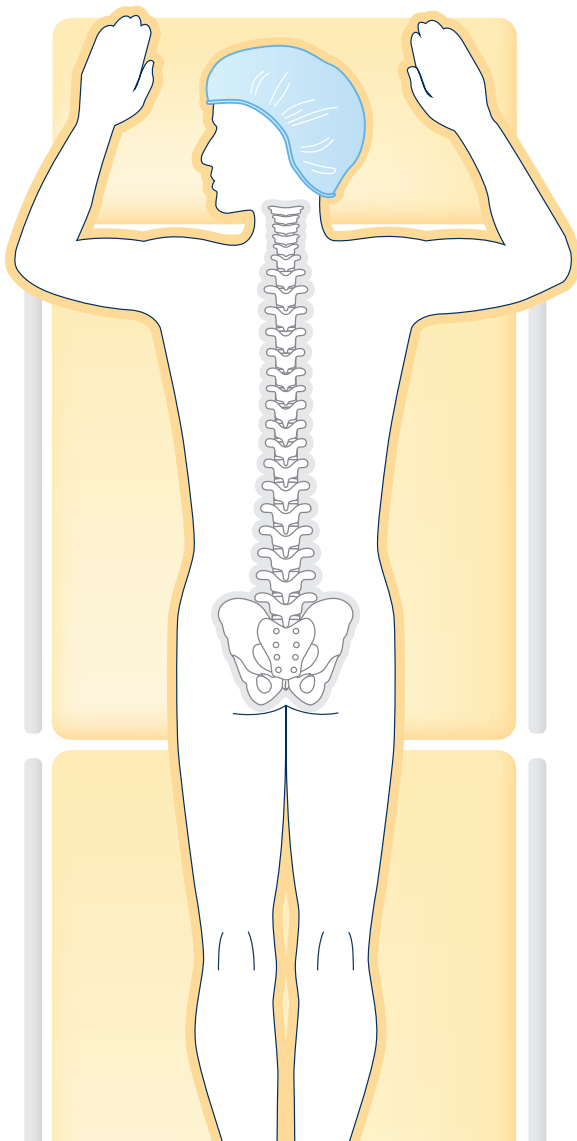
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Surgical Technique

Prior to using any Clariance device, please review the instructions for use, the label and this surgical technique for a complete listing of indications, contraindications, warnings, precautions, potential adverse events, and directions for use.



1 | INTRODUCTION

In accordance with safety procedures in force, the patient is placed in the ventral position on the operating table. The surgical approach is based on the usual techniques used by the surgeon.

The Erisma® Deformity system provides long screws, offset connectors and rod-to-rod connectors (dominos) as options for iliac fixation and revision applications. These implants are used for the treatment in long fusions in sagittal and/or coronal plane spinal deformities (scoliosis, high-grade spondylolisthesis, flatback syndrome, etc.). Also, the system may be used in revision surgery.

NOTE:

The use of instruments related to implantation of Pedicle Screws, Rods, Set Screws and Crosslinks is described in the Erisma®-LP Evolution surgical technique. The Erisma® Deformity surgical technique serves as a complement to the Erisma® LP Evolution technique.

2 | SCREW INSERTION

The iliac wing and posterior superior iliac spine are exposed by the surgeon's preferred method.

- Place the pedicle probe down between the iliac tables in a manner that places the path about 1cm to 1.5cm above the greater sciatic notch.

The Erisma®-LP Iliac screws are prepared and inserted in the same manner as the Erisma®-LP EVO Pedicle screws (see surgical technique LP-Evolution for polyaxial pedicle screws with short screw heads preparation description and instrument handling).

- Insert the Erisma® polyaxial screw into the pelvis.



ROD HOLDING FORCEPS

99715002 Angled



T20 WRENCH FOR 7N.M TORQUE LIMITING HANDLE

18720004



SELF-RETAINING SET SCREWDRIVER

01720006 Long



COUNTER TORQUE

18721008 Perpendicular



RATCHETING TORQUE LIMITING HANDLE 7N.m

99781202



RATCHETING TORQUE LIMITING HANDLE 12N.m

99781212



3 | INSERTION OF ILIAC FIXATION WITH ERISMA® DEFORMITY OFFSET CONNECTORS

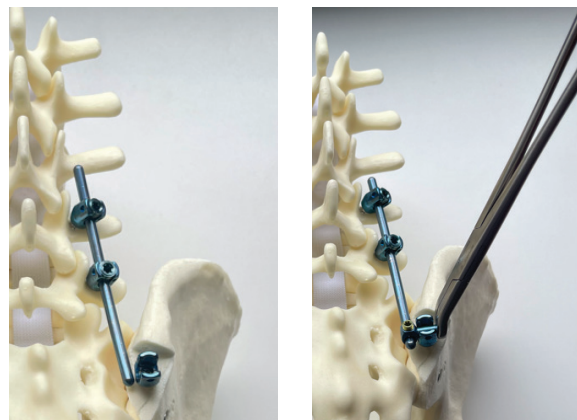
The offset connector links a screw in the iliac body to a rod.

Two sorts of connectors are available:

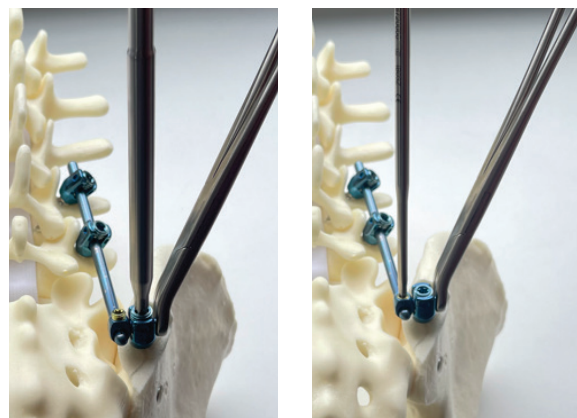
- The closed offset connector with a pre-loaded T20 set screw.
- The open offset connector, compatible with a standard set screw.

A | ILIAC FIXATION WITH CLOSED OFFSET CONNECTOR

After inserting the rod, the offset connector is slid to the rod's edge with the **Curved Rod Holding Forceps**. The connector is then rotated around the rod until it fits into the iliac screw head.



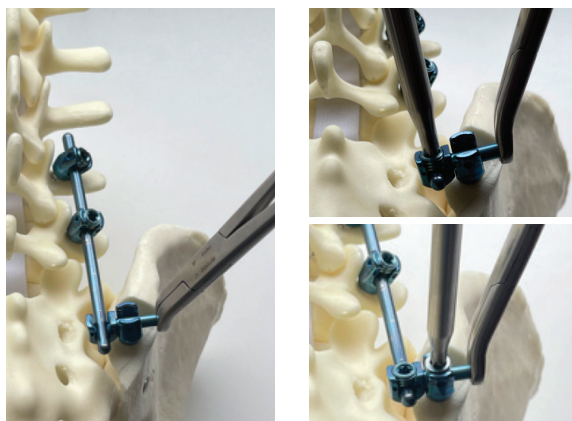
The iliac screw is tightened with a **T30 Set Screw** introduced with the **Self-Retaining Set Screwdriver** as described for pedicular screws (see Erisma® LP Evo surgical technique). The **T20 Set Screw** pre-loaded into the connector is then tightened with a **T20 Wrench**. Final tightening of the closed offset connector **T20 Set Screw** is performed with a **7N.m Torque Limited Handle**. Final tightening of the iliac screw **T30 set screw** is performed with a **12N.m Torque Limited Handle** (see Erisma® LP Evo surgical technique).



B | ILIAC FIXATION WITH OPEN OFFSET CONNECTOR

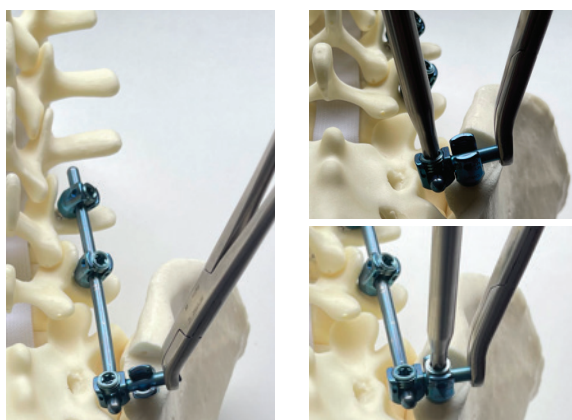
The open offset connector is inserted in the same manner as described previously for the closed connector.

The open connector side where the rod is placed is slightly tightened with a **T30 Set Screw** introduced with the **Self-Retaining Set Screwdriver** as described for pedicular screws (see Erisma® LP Evo surgical technique). Final tightening of the open connector **T30 Set Screw** is performed with a **12N.m Torque Limited Handle**. Final tightening of the iliac screw **T30 Set Screw** is performed with a **12N.m Torque Limited Handle**. (see Erisma® LP Evo surgical technique).



Alternative technique:

The **T30 Set Screw** is pre-loaded loose onto the open connector side. The open offset connector is then slid to the rod in the same manner as described previously. Final tightening of the open connector **T30 Set Screw** is performed with a **12N.m Torque Limited Handle**. Final tightening of the iliac screw **T30 Set Screw** is performed with a **12N.m Torque Limited Handle**. (see Erisma® LP Evo surgical technique).



ROD HOLDING FORCEPS

99715002

Angled



FIXED CANNULATED HANDLE

99781001



SELF-RETAINING SET SCREWDRIVER

01720006

Long



COUNTER TORQUE

18721008

Perpendicular



RATCHETING TORQUE LIMITING HANDLE 12N.m

99781212



4 | ILIAC FIXATION WITH ERISMA® DEFORMITY DOMINOS

The Erisma® Deformity dominos can be used for primary or revision surgery where the surgeon judges that a part of the construct requires more than 2 rods. This offers surgeons added strength and flexibility in treating complicated spinal disorders.

Two kinds of dominos are available:

The closed domino is provided with pre-loaded T20 set screw and is available in the following diameters:

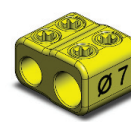
5.5/5.5mm



5.5/6mm



5.5/7mm



The open domino is closed with 2 standard set screws and available in the following diameter:

5.5/5.5mm



A | CONSTRUCT WITH CLOSED DOMINO

- When several vertebrae are linked with screws and rods, an extension can be realized with a domino.
- To proceed, screws are inserted on the adjacent vertebrae.



- The new bent rod, held by the **Rod Holding Forceps**, is slid in the domino and the domino is inserted into the implanted rod on the other side.



- The rod is then connected to the screws.
- The pedicular screws are slightly tightened with **T30 Set Screws** introduced with the **Self-Retaining Set Screwdriver** (see Erisma® LP Evo surgical technique).
- The closed domino's **T20 Set Screws** are slightly tightened with the **T20 Tightening Wrench**.
- Final tightening of pedicular screws **T30 Set Screws** is performed with a **12N.m Torque Limited Handle**.
- Final tightening of the closed domino **T20 Set Screws** is performed with a **7N.m Torque Limited Handle**.



ROD HOLDING FORCEPS

99715002

Angled



T20 WRENCH FOR 7N.M TORQUE LIMITING HANDLE

18720004



SELF-RETAINING SET SCREWDRIVER

01720006

Long



COUNTER TORQUE

18721008

Perpendicular



RATCHETING TORQUE LIMITING HANDLE 7N.m

99781202



RATCHETING TORQUE LIMITING HANDLE 12N.m

99781212



FIXED CANNULATED HANDLE

99781001



T20 WRENCH FOR 7N.M TORQUE LIMITING HANDLE

18720004



SELF-RETAINING SET SCREWDRIVER

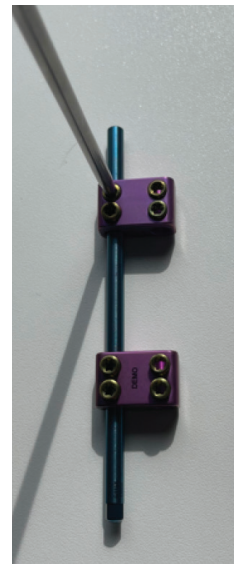
01720006

Long



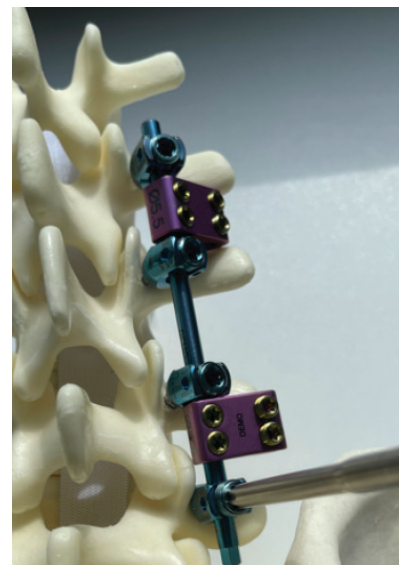
In order to strengthen the construct, it is also possible to double the rods using dominos.

- The first rod is slid in the dominos.
- The T20 screws on the side of the first rod are slightly tightened with the **T20 Wrench** in the same manner as described previously.



This construct is then fitted into the pedicular screws.

T30 set screws are then inserted.



- A second rod is then added parallel to the first rod.



- The T20 screws on the side of the second rod are fully tightened with the **T20 Wrench** in the same manner as described previously.



- T30 set screws are then fully tightened in the same manner as described previously.



COUNTER TORQUE

18721008 Perpendicular



RATCHETING TORQUE LIMITING HANDLE 7N.m

99781202



RATCHETING TORQUE LIMITING HANDLE 12N.m

99781212



ROD HOLDING FORCEPS

99715002 Angled



FIXED CANNULATED HANDLE

99781001



SELF-RETAINING SET SCREWDRIVER

01720006 Long



COUNTER TORQUE

18721008 Perpendicular



RATCHETING TORQUE LIMITING HANDLE 12N.m

99781212



B | CONSTRUCT WITH OPEN DOMINO

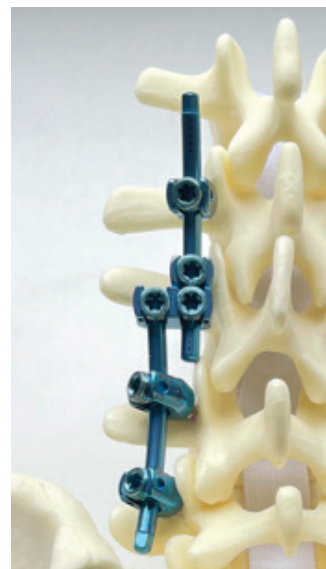
- The new bent rod is fixed into the open domino by tightening set screws with the **T30 Tightening Wrench**. The domino and rod are held with the **Rod Holding Forceps**.



- The domino is inserted in the implanted rod. The rod is then connected to the screws.

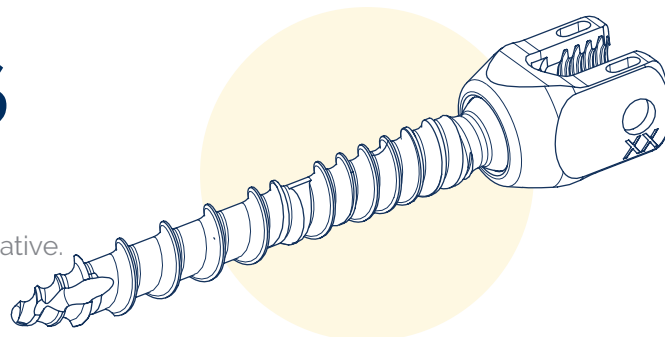


- Set screws are tightened with the **T30 Tightening Wrench** and a **12N.m Torque Limited Handle**.



Implants

Product availability may vary upon markets.
Please check with your local Sales Representative.



POLYAXIAL SCREWS 1815XXXX

	Ø8.5MM	Ø9.5MM
L70MM	18158570	18159570
L75MM	18158575	18159575
L80MM	18158580	18159580
L85MM	18158585	18159585

The following polyaxial screws sizes are offered in addition to sizes featuring in the Erisma® LP Evo surgical technique.



OPEN DOMINO OFFSET 5.5/5.5

18322213 10mm



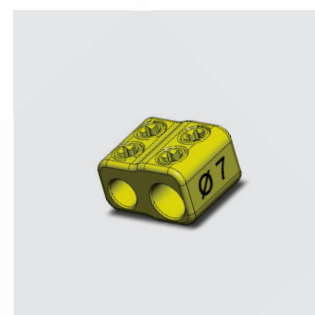
CLOSED DOMINO OFFSET 5.5/5.5

18322055 20mm
18322455 24mm



CLOSED DOMINO OFFSET 5.5/6

18322056 20mm
18322456 24mm



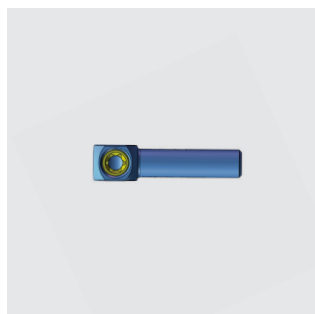
CLOSED DOMINO OFFSET 5.5/6

18322057 20mm
18322457 24mm



T30 SET SCREW

13620009



CLOSED OFFSET CONNECTOR

18320015 15mm
18320020 20mm
18320025 25mm
18320030 30mm
18320035 35mm



OPEN OFFSET CONNECTOR

18330015 15mm
18330020 20mm
18330025 25mm
18330030 30mm
18330035 35mm

Note: the instruments item numbers and images featured in this surgical technique may have alternative options. Instruments and implants availability may vary upon markets. Please contact your local Sales Representative for more information.

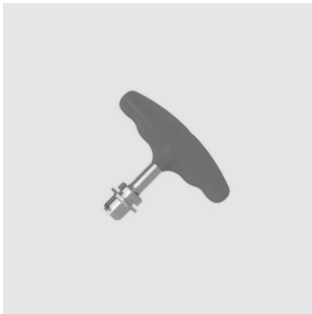
Instruments

Erisma®-LP Instruments Tray



ROD HOLDING
FORCEPS

99715002 Angled



FIXED CANNULATED
HANDLE

99781001



T20 WRENCH FOR 7N.M
TORQUE LIMITING
HANDLE

18720004



SELF-RETAINING
SET
SCREWDRIVER

01720006 Long



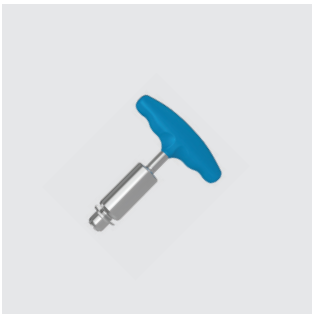
COUNTER
TORQUE

18721008 Perpendicular



RATCHETING TORQUE
LIMITING HANDLE
7N.M

99781202



RATCHETING TORQUE
LIMITING HANDLE
12N.M

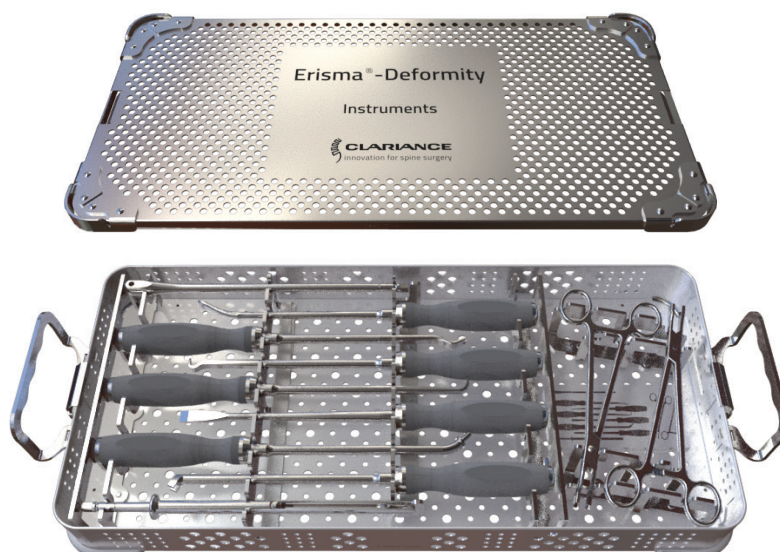
99781212

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Erisma-Deformity

15990012	Lid Implants
15990011/1	Implants Set Screws*
15990011/2	Implants Set Screws Connectors*
15990011/3	Implant Hooks*
15990015	Container Base



Erisma-Deformity

15990015	Lid Hooks & Connectors
15990012	Instruments

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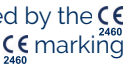
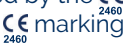
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